

Application Number 10/575214
Response to the Office Action dated April 15, 2008

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Original) A method of measuring a glycated amine, comprising the steps of:
 - adding a protease to a sample to degrade a glycated amine as an analyte contained in the sample with the protease;
 - adding a fructosyl amino acid oxidase (FAOD) to the sample so that the FAOD acts on the degradation product of the glycated amine, thereby causing a redox reaction;
 - measuring the redox reaction; and
 - determining an amount of the glycated amine based on a result of the measurement of the redox reaction,

wherein the method further comprises, prior to the degradation step of adding the protease, a step of adding the FAOD to the sample to cause the FAOD to act on a non-analytic glycated amine that is present in the sample and different from the glycated amine as the analyte in order to remove an influence of the non-analyte glycated amine, and

the redox reaction after the degradation step is caused by the FAOD added prior to the degradation step.
2. (Original) The method according to claim 1, wherein the degradation step, the step of causing the redox reaction, and the step of measuring the redox reaction are performed at the same time.
3. (Original) The method according to claim 1, wherein the step of causing the redox reaction is a step of causing the FAOD to act on the degradation product of the glycated amine to generate hydrogen peroxide.
4. (Original) The method according to claim 3, wherein the step of measuring the redox reaction comprises a step of adding an oxidase and a substrate that develops color by

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oxidation to the sample so that a reaction between the generated hydrogen peroxide and the substrate is caused by the oxidase.

5. (Original) The method according to claim 4, wherein the degradation step, the step of causing the redox reaction, and the step of measuring the redox reaction are performed at the same time by adding the protease, the oxidase, and the substrate that develops color by oxidation to the sample at the same time after the step of causing the FAOD to act on the non-analyte glycated amine.

6. (Original) The method according to claim 4, wherein the degradation step, the step of causing the redox reaction, and the step of measuring the redox reaction are performed at the same time after the step of causing the FAOD to act on the non-analyte glycated amine by adding the oxidase to the sample together with the FAOD prior to the degradation step and further adding the protease and the substrate that develops color by oxidation to the sample at the same time.

7. (Original) The method according to claim 4, wherein the degradation step, the step of causing the redox reaction, and the step of measuring the redox reaction are performed at the same time after the step of causing the FAOD to act on the non-analyte glycated amine by adding the substrate that develops color by oxidation to the sample together with the FAOD prior to the degradation step and further adding the protease and the oxidase to the sample at the same time.

8. (Original) The method according to claim 4, wherein the oxidase is peroxidase.

9. (Original) The method according to claim 1, wherein the FAOD is an enzyme specific for a glycated α -amino group of an amino acid residue, an enzyme specific for a glycated side chain of an amino acid residue, or an enzyme specific for both a glycated α -amino group of an amino acid residue and a glycated side chain of an amino acid residue.

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10. (Original) The method according to claim 1, wherein the non-analyte glycated amine is a glycated amino acid.

11. (Original) The method according to claim 1, wherein the glycated amine as the analyte is a glycated peptide or a glycated protein.

12. (Original) The method according to claim 1, wherein the glycated amine as the analyte is a glycated amine present in a blood cell.

13. (Original) The method according to claim 1, wherein the glycated amine as the analyte is glycated hemoglobin.

14. (Original) The method according to claim 1, wherein a tetrazolium compound further is added to the sample prior to the degradation step.

15. (Original) The method according to claim 14, wherein the tetrazolium compound comprises 2-(4-iodophenyl)-3-(2,4-dinitrophenyl)-5-(2,4-disulfophenyl)-2H-tetrazolium or a salt thereof.

16. (Original) The method according to claim 1, wherein a surfactant further is added to the sample prior to the degradation step.

17. (Currently Amended) The method according to claim 16, wherein the surfactant is at least one surfactant selected from amphoteric nonionic surfactants, anionic surfactants, and cationic surfactants.

18. (Withdrawn) A reagent kit to be used in the method according to claim 1, the reagent kit comprising a first reagent and a second reagent,
wherein the first reagent contains at least a fructosyl amino acid oxidase (FAOD),
the second reagent contains at least a protease, and

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one of a peroxidase and a substrate that develops color by oxidation is contained in the first reagent whereas the other is contained in the second reagent, or both the peroxidase and the substrate are contained in the second reagent.

19. (Withdrawn) The reagent kit according to claim 18, wherein the first reagent further contains a tetrazolium compound.

20. (Withdrawn) The reagent kit according to claim 19, wherein the tetrazolium compound comprises 2-(4-iodophenyl)-3-(2,4-dinitrophenyl)-5-(2,4-disulfophenyl)-2H-tetrazolium or a salt thereof.

21. (Withdrawn) The reagent kit according to claim 19, wherein the first reagent further contains a surfactant.